



## Complete Summary

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### TITLE

Nursing facility chronic care: percent of residents with a urinary tract infection.

### SOURCE(S)

Abt Associates, Inc, U.S. Department of Health and Human Services, Centers for Medicare & Medicaid Services. National nursing home quality measures. User's manual. Cambridge (MA): Abt Associates, Inc.; 2004 Jan 1 (v1). 46 p.

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of residents with a urinary tract infection.

### RATIONALE

Most urinary tract infections (UTI) can be prevented by keeping the area clean, emptying the bladder regularly, and drinking enough fluid. Nursing home staff should make sure the resident has good hygiene. Finding the cause and getting early treatment of a UTI can prevent the infection from spreading and becoming more serious or causing complications like delirium. It is important to find out whether the UTI is caused by a physical problem, like an enlarged prostate, so proper medical treatment can be given.

This measure is one of fourteen National Nursing Home Quality Improvement (NHQI) measures. These measures provide information to help consumers make informed decisions about their nursing home care. The measures are also intended to motivate nursing homes to improve their care and to inform discussions about quality between consumers and clinicians.

### PRIMARY CLINICAL COMPONENT

Chronic care; urinary tract infection

### DENOMINATOR DESCRIPTION

All residents with a valid target assessment (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

### NUMERATOR DESCRIPTION

Number of residents from the denominator with urinary tract infection on target assessment

### Evidence Supporting the Measure

#### PRIMARY MEASURE DOMAIN

Outcome

#### SECONDARY MEASURE DOMAIN

Not applicable

#### EVIDENCE SUPPORTING THE MEASURE

A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences

### Evidence Supporting Need for the Measure

#### NEED FOR THE MEASURE

Use of this measure to improve performance

#### EVIDENCE SUPPORTING NEED FOR THE MEASURE

Nursing home compare. [internet]. Baltimore (MD): Centers for Medicare and Medicaid Services; 2000- [updated 2004 Feb 19]; [cited 2004 Jul 21].

### State of Use of the Measure

#### STATE OF USE

Current routine use

#### CURRENT USE

Internal quality improvement  
National health care quality reporting

### Application of Measure in its Current Use

#### CARE SETTING

Nursing Homes

#### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Measure is not provider specific

#### LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Single Health Care Delivery Organizations

#### TARGET POPULATION AGE

Patients of all ages

#### TARGET POPULATION GENDER

Either male or female

#### STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

### Characteristics of the Primary Clinical Component

#### INCIDENCE/PREVALENCE

About 3 million elderly and disabled Americans received care in our nation's nearly 17,000 Medicare and Medicaid-certified nursing homes in 2001. Slightly more than half of these were long-term nursing home residents, but nearly as many had shorter stays for rehabilitation care after an acute hospitalization. About 75 percent were age 75 or older.

#### EVIDENCE FOR INCIDENCE/PREVALENCE

Nursing home quality initiative. Overview. Baltimore (MD): U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services (CMS); 2004 Jan 20. 3 p.

#### ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

#### BURDEN OF ILLNESS

See "Rationale" field.

#### UTILIZATION

Unspecified

#### COSTS

Unspecified

## Institute of Medicine National Healthcare Quality Report Categories

### IOM CARE NEED

Living with Illness

### IOM DOMAIN

Effectiveness

## Data Collection for the Measure

### CASE FINDING

Users of care only

### DESCRIPTION OF CASE FINDING

All residents with a valid target assessment

### DENOMINATOR SAMPLING FRAME

Patients associated with provider

### DENOMINATOR (INDEX) EVENT

Diagnostic Evaluation  
Institutionalization

### DENOMINATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

All residents with a valid target assessment

#### Exclusions

Residents satisfying any of the following conditions:

1. The target assessment is an admission assessment.
2. A specified value is missing on the target assessment.

Refer to the original measure documentation for details.

### NUMERATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

Number of residents from the denominator with urinary tract infection on target assessment

Refer to the original measure documentation for details.

Exclusions  
Unspecified

#### DENOMINATOR TIME WINDOW

Time window precedes index event

#### NUMERATOR TIME WINDOW

Encounter or point in time

#### DATA SOURCE

Special or unique data

#### LEVEL OF DETERMINATION OF QUALITY

Not Individual Case

#### OUTCOME TYPE

Clinical Outcome

#### PRE-EXISTING INSTRUMENT USED

CMS Minimum Data Set - Resident Assessment Instrument (Version 2.0)

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a lower score

#### ALLOWANCE FOR PATIENT FACTORS

Risk adjustment devised specifically for this measure/condition

#### DESCRIPTION OF ALLOWANCE FOR PATIENT FACTORS

Risk adjustment refines raw quality measure (QM) scores to better reflect the prevalence of problems that facilities should be able to address.

Risk adjustment for this measure involves exclusion of residents whose outcomes are not under nursing facility control (e.g., outcome is evidenced on admission to the facility). For each QM, the prevalence of the outcome across all residents in a

nursing facility, after exclusions, is the facility-level observed QM score. Refer to the original measure documentation for details.

## STANDARD OF COMPARISON

External comparison at a point in time  
Internal time comparison

## Evaluation of Measure Properties

## EXTENT OF MEASURE TESTING

The quality measures have been validated and are based on the best research currently available. These quality measures meet four criteria. They are important to consumers, are accurate (reliable, valid and risk adjusted), can be used to show ways in which facilities are different from one another, and can be influenced by the provision of high quality care by nursing home staff. A formal validation study was conducted involving 5,758 chronic and post-acute residents in 209 nursing facilities in 6 states.

## EVIDENCE FOR RELIABILITY/VALIDITY TESTING

Abt Associates, Inc, U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services. Validation of long-term and post-acute care quality indicators. Cambridge (MA): Abt Associates, Inc.; 2003 Jun 10. 93 p.

## Identifying Information

### ORIGINAL TITLE

Percent of residents with a urinary tract infection.

### MEASURE COLLECTION

[Nursing Home Quality Initiative: National Nursing Home Quality Measures](#)

### MEASURE SET NAME

[Chronic Care Quality Measures](#)

### DEVELOPER

Centers for Medicare and Medicaid Services

### ENDORSER

National Quality Forum

### ADAPTATION

Measure was not adapted from another source.

#### RELEASE DATE

2004 Jan

#### MEASURE STATUS

This is the current release of the measure.

#### SOURCE(S)

Abt Associates, Inc, U.S. Department of Health and Human Services, Centers for Medicare & Medicaid Services. National nursing home quality measures. User's manual. Cambridge (MA): Abt Associates, Inc.; 2004 Jan 1 (v1). 46 p.

#### MEASURE AVAILABILITY

The individual measure, "Percent of residents with a urinary tract infection," is published in "National Nursing Home Quality Measures. User's Manual." This document is available in Portable Document Format (PDF) from the [Centers for Medicare and Medicaid Services \(CMS\) Web site](#).

For more information, refer to the CMS Web site at, [www.cms.hhs.gov](http://www.cms.hhs.gov).

#### COMPANION DOCUMENTS

The following is available:

- Nursing Home Compare. [internet]. Baltimore (MD): Centers for Medicare and Medicaid Services. 2000- [updated 2004 Feb 19]; [cited 2004 Ju1 21]. This tool is available from the [Medicare Web site](#).

#### NQMC STATUS

The NQMC summary was completed by ECRI on July 22, 2004. The information was verified by the measure developer on August 30, 2004.

#### COPYRIGHT STATEMENT

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